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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/721,273

11/26/2003

Sean Chang

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6481

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06/15/2005

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EXAMINER

CHERRY, EUNCHA P

ART UNIT

PAPER NUMBER

2872

DATE MAILED: 06/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/721,273

Applicant(s)

CHANG, SEAN

Examiner

EUNCHA P. CHERRY

Art Unit

2872

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Inada (US 6,452,147).

Inada discloses an imaging system switching device comprising: a first roller and a second roller (Fig. 2, 41K-41C); a reflector swinging in a predetermined angle (19K-19C); a lens disposed between the first roller and the reflector (inherent); an optical receiver (25) receiving optical scanning signals and transforming the optical scanning signals into digital signals while the imaging system switching device is scanning an input document (12); an optical transmitter (18K-18C) generating optical output signals while the imaging system switching device is printing an output document; and an optical switch capable of switching optical signal transmitting paths (see column 10, lines 51-62); wherein while the imaging system

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switching device is scanning the input document, the first roller rotates the input document and cooperates with the reflector swinging in the predetermined angle to scan the whole input document and generate the optical scanning signals, the optical scanning signals are transmitted to the reflector by way of the lens, the reflector reflects the optical scanning signals to the optical switch by way of the lens, the optical switch transmits the optical scanning signals to the optical receiver, and the optical receiver transfers the optical scanning signals to the digital signals; and while the imaging system switching device is printing the output document, the optical transmitter generates the optical output signals to the optical switch, the optical switch transmits the optical output signals to the reflector by way of the lens, the reflector swings in the predetermined angle and cooperate with a rotation of the first roller so that the optical output signals are transmitted to the first roller by way of the lens to form an electrostatic latent image thereon(column 6, lines 1-50) and the electrostatic latent image with toner is transferred to an output medium (on tray 14). The imaging system switching device scans the input document and prints the input document so as to execute a copy procedure (column 5, line 44). The imaging system switching device scans the input document and utilizes a telephone device

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to transmit the input document to a remote fax machine so as to execute a fax procedure (column 5, line 51). The transmitter is a light emitting diode (LED) or a laser diode (column 6, line 4). The optical receiver comprises a photo diode (column 6, line 50-52). The optical switch is a mechanical optical switch, a Micro Electro Mechanical System (MEMS) optical switch, a beam splitter, a total internal reflection (TIR) prism, or an optical router (column 6, line 62 - column 7, line 64). The original roller (one of 41K-41C) and the optical switch is an optical path routing device, wherein the optical path routing device simultaneously transmits the optical output signals to the first roller and the optical scanning signals to the optical receiver to form the electrostatic latent image and the digital signals (column 6, line 60) so that the imaging system switching device scans the input document and prints output document simultaneously (see Fig. 3).

Conclusion

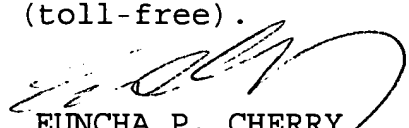
3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Miyata et al (US 6,539,199 B1) discloses an image forming device that satisfies at least claims 1, 2, 4-6, 9 and 17-20.

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to EUNCHA P. CHERRY whose telephone number is 571-272-2310. The examiner can normally be reached on M-F 6:30-4:00, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DREW DUNN can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



EUNCHA P. CHERRY
Primary Examiner
Art Unit 2872

6/13/05